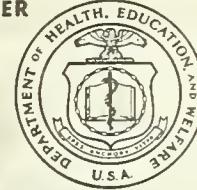


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NATIONAL COMMUNICABLE DISEASE CENTER



Vol. 16, No. 41

## WEEKLY REPORT

Week Ending  
October 14, 1967

# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

EPIDEMIOLOGIC NOTES AND REPORT  
DIPHTHERIA - Alabama

From August 4 to October 11, 1967, 14 cases of diphtheria, including two deaths, and 41 carriers were reported to the Alabama State Department of Public Health. The State Laboratory confirmed all reports by isolations of *Corynebacterium diphtheriae*. The counties of residence of the cases and carriers are shown in Table 1. Mobile County is in the southwestern corner of the state. The three other counties are contiguous and in the central portion of the state.

The two deaths occurred in unrelated, unimmunized, Negro females (ages 1 and 7), both of whom developed

1967

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cardiitis and laryngotracheobronchitis requiring tracheostomy. Of the remaining 12 cases, two were mild in fully immunized children, and 10 were classified as mild to moderate, 5 of which were in incompletely immunized individuals and 5 in unimmunized individuals.

(Continued on page 346)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	41st WEEK ENDED		MEDIAN 1962 - 1966	CUMULATIVE, FIRST 41 WEEKS		
	OCTOBER 14, 1967	OCTOBER 15, 1966		1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis . . . . .	86	80	68	2,287	2,403	1,659
Brucellosis . . . . .	8	6	6	200	205	295
Diphtheria . . . . .	3	6	9	116	153	201
Encephalitis, primary:						
Arthropod-borne & unspecified . . . . .	36	40	---	1,278	1,727	---
Encephalitis, post-infectious . . . . .	2	5	---	665	621	---
Hepatitis, serum . . . . .	40	22	---	1,708	1,091	---
Hepatitis, infectious . . . . .	670	573	681	30,195	25,040	30,442
Malaria . . . . .	24	18	3	1,553	342	77
Measles (rubeola) . . . . .	263	679	857	58,708	191,496	361,744
Meningococcal infections, total:	27	35	37	1,798	2,853	2,191
Civilian . . . . .	26	33	---	1,681	2,572	---
Military . . . . .	1	2	---	117	281	---
Poliomyelitis, total . . . . .	—	2	5	25	75	92
Paralytic . . . . .	—	2	5	21	70	76
Rubella (German measles) . . . . .	248	202	---	40,654	42,576	---
Streptococcal sore throat & scarlet fever . . . . .	6,541	5,906	5,093	352,354	332,667	310,785
Tetanus . . . . .	7	5	6	180	152	219
Tularemia . . . . .	4	2	4	144	143	226
Typhoid fever . . . . .	9	11	12	333	310	345
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	4	4	4	285	226	212
Rabies in animals . . . . .	73	57	65	3,476	3,290	3,290

## NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: . . . . .	2	Rabies in man: . . . . .	2
Botulism: . . . . .	2	Rubella, Congenital Syndrome: Md.-1 . . . . .	5
Leptospirosis: . . . . .	32	Trichinosis: Ill.-1, N.Y. Ups.-1 . . . . .	51
Plague: . . . . .	2	Typhus, murine: . . . . .	34
Psittacosis: Tex.-1 . . . . .	37	Polio, Unsp. . . . .	4

## DIPHTHERIA - Alabama (Continued from front page)

Table 1  
Counties of Residence of Cases and Carriers of Diphtheria  
Alabama

County	Population	Cases	Carriers
Dallas	57,100	11	23
Mobile	366,900	1	1
Montgomery	188,100	2	15
Autauga	19,050	0	2
<b>TOTAL</b>		<b>14</b>	<b>41</b>

Twelve of the 14 confirmed diphtheria cases occurred in children from 1 to 12 years of age (mean age of 6.4 years). Eleven of these 12 cases were in residents of Dallas County, two of whom live in the same trailer park. In a culture survey including over 200 of the trailer park residents, 12 carriers were detected, giving a minimum carrier rate of 5.6 percent. Six additional carriers were discovered among 105 first-grade classmates of one of the trailer park cases, and one other carrier was found among 97 fourth-grade classmates. One of the 19 carriers was one year old; all others were from 5 to 14 years of age (mean 8.7 years). None of the other cases in residents of Dallas County could be epidemiologically related.

Two adult cases were reported from Montgomery County. One was a mild case of pharyngeal diphtheria in an incompletely immunized 19-year-old Negro female. The other case was mild cutaneous diphtheria in a 45-year-old unimmunized Negro farm worker who had an infected leg ulcer. Sixty-eight of the 70 members of the all-Negro farm community in which the patient lived were cultured, and 13

carriers were discovered (attack rate of 18.8 percent). Seven of the patient's 10 children had positive oropharyngeal and nasopharyngeal cultures; two of these children also had positive cutaneous cultures.

The laboratory characterization of the diphtheria isolates, performed by the Bacterial Serology Unit of the Laboratory Program at NCDC, is shown in Table 2.

Table 2  
Laboratory Characterization of Diphtheria Isolates  
August 4 - October 11, 1967  
Alabama

	Virulence		Type*			Not Reported
	Vir.	Non-Vir.	M	I	G	
Cases	14	10	7	2	0	5
Carriers	29	12	25	3**	0	15

\*M-Mitis, I-Intermedius, G-Gravis

\*\*Two carriers were positive for both mitis and intermedius types of diphtheria isolates.

Intensive immunization campaigns are currently being conducted in areas where cases and carriers have been found. In Dallas County, approximately 21,000 individuals have been immunized to date.

(Reported by W. H. Y. Smith, M.D., Director, Bureau of Preventable Diseases, William J. Donald, M.D., Director, Bureau of County Health Services; Thomas Hosty, Ph.D., Director, Bureau of Laboratories, all with the Alabama State Department of Public Health; and an EIS Officer.)

EPIDEMIC OF FEBRILE GASTROENTERITIS DUE TO INGESTION OF CONTAMINATED ICE  
Morgantown, West Virginia

Late Sunday evening on September 24, 1967, 100 students of West Virginia University appeared in the Emergency Room of the Medical Center with complaints of nausea, vomiting, diarrhea, mild fever, dizziness, headache, and fainting. The next day 600 more students sought medical attention, 42 of whom were hospitalized. Many students from nearby high schools reported similar illnesses. All of the ill persons were among the 14,000 spectators at the University of West Virginia football game Saturday afternoon (September 23).

The onsets of 178 of the University cases are presented in Figure 1. The concentration between noon September 24 to noon September 25 strongly suggests a common-source exposure, with a median incubation time of 32 hours, and a range of 10 to 68 hours. The duration of symptoms was from 4 to 24 hours.

Undergraduate students who attended the game were requested to answer a food and illness history questionnaire; 337 completed forms were returned. The results of the food histories are presented in Table 3. The most sig-

nificant difference ( $p < 0.005$ ) was between those who drank and did not drink soft drinks. There were two types of soft drinks, A and B; the attack rate among those who

Figure 1  
EPIDEMIC OF GASTROENTERITIS  
BY HOUR OF ONSET  
MORGANTOWN, WEST VIRGINIA - SEPTEMBER 1967

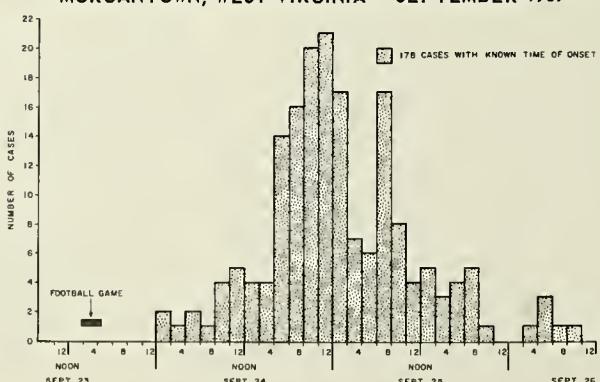


Table 3  
Attack Rates for Foods Consumed  
at West Virginia University Football Game  
September 23, 1967

	ATE			
	III	Not Ill	Total	Attack Rate
Hotdog	39	8	47	82%
Popcorn	32	7	39	82%
Peanuts	19	16	35	54%
Soft drinks	177	111	288	61%
	DID NOT EAT			
Hotdog	146	144	290	51%
Popcorn	153	145	298	51%
Peanuts	166	136	302	55%
Soft drinks	8	41	49	16%

drank A was 57 percent, while for those who had B it was 63 percent.

The soft drinks were prepared at separate concession stands, each dealing exclusively with one brand. Since

the cola syrups were from different sources, they could not be implicated. City water, which was used to mix the soft drinks, could not be implicated. The only remaining common ingredient in the soft drinks was ice. It was discovered that several persons also became ill who had eaten ice alone or who had put ice obtained from one of the stands into beverages brought from home.

The ice had been purchased out of state and shipped to Morgantown for the game. Preliminary bacteriologic studies indicate high coliform counts in samples of leftover ice. The ice manufacturing plant is currently being investigated, but as of this date, no other consumers of ice obtained from this plant have experienced outbreaks of gastroenteritis.

Stool cultures and acute sera were obtained from 30 of the sick persons; laboratory studies are in progress. Preliminary results do not implicate a specific etiologic organism.

(Reported by Dr. N. H. Dyer, Director of Health, West Virginia State Department of Health; and an EIS Officer.)

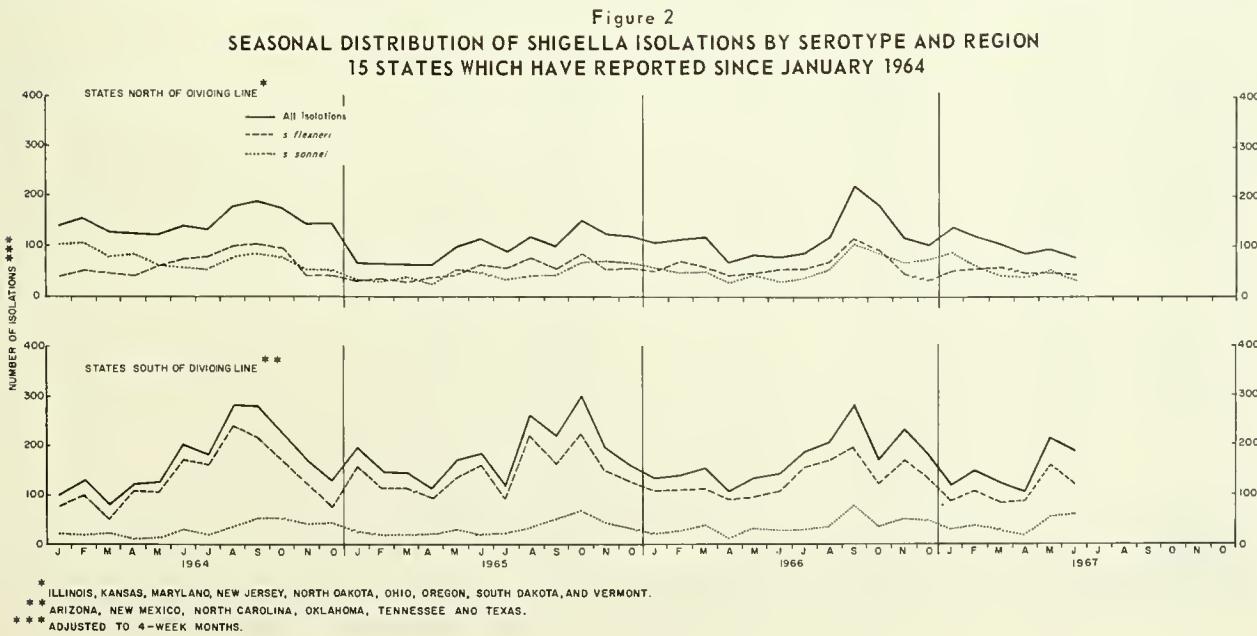
#### SURVEILLANCE SUMMARY SHIGELLOPSIS — January through June 1967

For the first 6 months of 1967, a total of 4,849 shigella isolations from humans were reported in the United States. This total represents a 24.8 percent decrease from the 6,448 isolations notified for the last 6 months of 1966, and a 22.6 percent increase over the 3,995 isolations for the first 6 months of 1966. The overall attack rate in the U.S. was 25.0 cases per million for the first half of 1967, as compared to 33.3 cases per million for the last half of 1966.

Fifty-one of the 54 reporting centers now participating in the Shigella Surveillance Program recorded human isolations of shigella from January through June 1967. Of the 22 serotypes reported, the six most frequently included are listed in Table 4.

The regional distribution of shigella isolates, particularly of *Shigella flexneri* and *S. sonnei*, appears consistent with patterns observed since 1964 (Figure 2).

(Continued on page 352)



## Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 14, 1967 AND OCTOBER 15, 1966 (41st WEEK)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
 FOR WEEKS ENDED  
 OCTOBER 14, 1967 AND OCTOBER 15, 1966 (41st WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)				MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA
		1967	Cumulative		1967	Cumulative		1967	1967	Cum. 1967		
			1967	1966		1967	1966					
UNITED STATES...	24	263	58,708	191,496	27	1,798	2,853	-	-	21	248	
NEW ENGLAND.....	-	6	871	2,327	2	73	125	-	-	-	31	
Maine.....	-	-	239	223	-	3	10	-	-	-	4	
New Hampshire.....	-	2	76	80	-	2	9	-	-	-	1	
Vermont.....	-	-	42	266	-	1	4	-	-	-	3	
Massachusetts.....	-	4	361	788	1	34	50	-	-	-	5	
Rhode Island.....	-	-	62	72	-	4	15	-	-	-	3	
Connecticut.....	-	-	91	898	1	29	37	-	-	-	15	
MIDDLE ATLANTIC.....	3	3	2,305	18,097	4	292	347	-	-	5	30	
New York City.....	1	2	474	8,302	-	51	49	-	-	1	11	
New York, Up-State.....	-	-	594	2,549	1	71	97	-	-	1	4	
New Jersey.....	2	-	490	1,862	2	96	103	-	-	-	9	
Pennsylvania.....	-	1	747	5,384	1	74	98	-	-	3	6	
EAST NORTH CENTRAL...	-	39	5,614	69,053	2	253	452	-	-	3	38	
Ohio.....	-	3	1,155	6,365	1	82	123	-	-	-	4	
Indiana.....	-	2	604	5,734	-	40	79	-	-	-	1	
Illinois.....	-	8	1,006	11,384	-	56	83	-	-	-	10	
Michigan.....	-	7	950	14,600	1	58	121	-	-	3	10	
Wisconsin.....	-	19	1,899	30,970	-	17	46	-	-	-	13	
WEST NORTH CENTRAL...	-	4	2,877	8,744	2	80	151	-	-	3	16	
Minnesota.....	-	-	123	1,643	-	19	34	-	-	-	3	
Iowa.....	-	-	750	5,327	-	16	22	-	-	1	10	
Missouri.....	-	-	337	533	-	16	58	-	-	-	-	
North Dakota.....	-	2	874	1,124	-	2	11	-	-	-	-	
South Dakota.....	-	-	55	40	-	6	5	-	-	-	-	
Nebraska.....	-	2	644	77	-	13	8	-	-	-	3	
Kansas.....	-	-	94	NN	2	8	13	-	-	2	-	
SOUTH ATLANTIC.....	10	34	6,970	15,406	7	349	484	-	-	2	11	
Delaware.....	-	-	49	257	-	7	4	-	-	-	-	
Maryland.....	1	2	165	2,111	2	46	48	-	-	1	-	
Dist. of Columbia.....	-	-	24	384	1	11	13	-	-	-	-	
Virginia.....	-	-	2,197	2,196	1	41	60	-	-	-	3	
West Virginia.....	-	3	1,401	5,340	1	33	31	-	-	-	2	
North Carolina.....	8	19	880	500	-	71	125	-	-	1	-	
South Carolina.....	1	-	511	658	-	29	50	-	-	-	-	
Georgia.....	-	-	36	234	2	53	63	-	-	-	-	
Florida.....	-	10	1,707	3,726	-	58	90	-	-	-	6	
EAST SOUTH CENTRAL...	-	24	5,254	19,847	1	140	250	-	-	1	29	
Kentucky.....	-	5	1,345	4,736	1	41	88	-	-	-	14	
Tennessee.....	-	16	1,909	12,384	-	59	85	-	-	-	14	
Alabama.....	-	3	1,332	1,698	-	26	54	-	-	-	1	
Mississippi.....	-	-	668	1,029	-	14	23	-	-	1	-	
WEST SOUTH CENTRAL...	3	75	17,613	24,841	6	230	386	-	-	7	1	
Arkansas.....	-	-	1,404	971	1	33	35	-	-	-	-	
Louisiana.....	2	1	156	99	3	91	143	-	-	-	-	
Oklahoma.....	1	-	3,351	494	-	17	19	-	-	1	-	
Texas.....	-	74	12,702	23,277	2	89	189	-	-	6	1	
MOUNTAIN.....	-	18	4,723	12,087	-	33	89	-	-	-	9	
Montana.....	-	7	303	1,838	-	2	4	-	-	-	-	
Idaho.....	-	2	391	1,625	-	3	5	-	-	-	-	
Wyoming.....	-	-	181	168	-	1	6	-	-	-	-	
Colorado.....	-	7	1,584	1,321	-	13	48	-	-	-	5	
New Mexico.....	-	-	591	1,137	-	3	10	-	-	-	-	
Arizona.....	-	2	1,022	5,312	-	4	10	-	-	-	4	
Utah.....	-	-	382	641	-	4	1	-	-	-	-	
Nevada.....	-	-	269	45	-	3	5	-	-	-	-	
PACIFIC.....	8	60	12,481	21,094	3	348	569	-	-	-	83	
Washington.....	-	23	5,501	3,816	-	31	40	-	-	-	24	
Oregon.....	-	13	1,643	1,849	-	27	36	-	-	-	14	
California.....	8	22	5,017	14,747	3	276	472	-	-	-	36	
Alaska.....	-	-	145	540	-	10	17	-	-	-	8	
Hawaii.....	-	2	175	142	-	4	4	-	-	-	1	
Puerto Rico.....	-	9	2,142	2,915	-	13	16	-	-	-	-	

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
 FOR WEEKS ENDED  
 OCTOBER 14, 1967 AND OCTOBER 15, 1966 (41st WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
		1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967
UNITED STATES...	6,541	7	180	4	144	9	333	4	285	73	3,476
NEW ENGLAND.....	649	-	2	-	1	-	7	-	1	2	93
Maine.....	45	-	-	-	-	-	-	-	-	1	20
New Hampshire.....	17	-	-	-	-	-	-	-	-	1	45
Vermont.....	17	-	-	-	-	-	-	-	-	-	22
Massachusetts.....	119	-	1	-	1	-	3	-	1	-	4
Rhode Island.....	61	-	-	-	-	-	1	-	-	-	2
Connecticut.....	390	-	1	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC.....	139	-	12	-	-	1	34	-	35	1	81
New York City.....	5	-	6	-	-	-	17	-	-	-	-
New York, Up-State.....	113	-	1	-	-	-	9	-	9	-	68
New Jersey.....	NN	-	1	-	-	1	4	-	15	-	-
Pennsylvania.....	21	-	4	-	-	-	4	-	11	1	13
EAST NORTH CENTRAL...	448	2	20	-	12	5	35	-	22	2	332
Ohio.....	76	-	4	-	-	2	9	-	11	2	117
Indiana.....	80	-	3	-	-	2	-	-	1	-	75
Illinois.....	82	1	10	-	10	2	5	-	10	-	63
Michigan.....	133	1	3	-	-	1	8	-	-	-	21
Wisconsin.....	77	-	-	-	-	-	2	-	-	-	56
WEST NORTH CENTRAL...	395	2	15	-	21	-	17	-	4	13	803
Minnesota.....	8	1	4	-	-	-	1	-	1	4	161
Iowa.....	95	-	1	-	1	-	3	-	-	-	106
Missouri.....	5	1	8	-	8	-	8	-	1	2	147
North Dakota.....	103	-	-	-	-	-	-	-	-	5	143
South Dakota.....	44	-	1	-	2	-	-	-	-	-	94
Nebraska.....	120	-	-	-	-	-	4	-	2	1	55
Kansas.....	20	-	1	-	10	-	1	-	-	1	97
SOUTH ATLANTIC.....	718	-	38	-	10	1	50	1	114	7	437
Delaware.....	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	110	-	-	-	-	-	2	-	21	-	3
Dist. of Columbia.....	7	-	-	-	-	-	2	-	-	1	6
Virginia.....	123	-	9	-	-	-	6	-	27	2	188
West Virginia.....	154	-	1	-	2	-	1	-	1	-	59
North Carolina.....	9	-	6	-	-	1	4	1	45	-	3
South Carolina.....	5	-	1	-	2	-	-	-	5	1	2
Georgia.....	7	-	3	-	5	-	14	-	15	1	106
Florida.....	303	-	18	-	1	-	11	-	-	2	70
EAST SOUTH CENTRAL...	1,263	-	30	1	10	-	54	2	51	18	663
Kentucky.....	50	-	3	-	1	-	23	-	14	2	153
Tennessee.....	1,014	-	8	1	7	-	9	2	25	14	459
Alabama.....	174	-	11	-	-	-	10	-	12	2	42
Mississippi.....	25	-	8	-	2	-	12	-	-	-	9
WEST SOUTH CENTRAL...	642	3	45	3	75	-	36	1	38	21	758
Arkansas.....	1	-	5	2	44	-	11	1	14	3	102
Louisiana.....	3	-	4	-	7	-	14	-	-	-	63
Oklahoma.....	30	-	3	-	18	-	7	-	15	11	277
Texas.....	608	3	33	1	6	-	4	-	9	7	316
MOUNTAIN.....	1,201	-	1	-	9	-	19	-	9	1	108
Montana.....	37	-	-	-	1	-	2	-	-	-	-
Idaho.....	141	-	-	-	-	-	-	-	-	-	-
Wyoming.....	48	-	-	-	2	-	-	-	-	-	5
Colorado.....	701	-	-	-	1	-	12	-	9	-	10
New Mexico.....	142	-	1	-	-	-	2	-	-	1	32
Arizona.....	107	-	-	-	-	-	3	-	-	-	49
Utah.....	23	-	-	-	5	-	-	-	-	-	3
Nevada.....	2	-	-	-	-	-	-	-	-	-	9
PACIFIC.....	1,086	-	17	-	6	2	81	-	11	8	201
Washington.....	373	-	-	-	2	1	2	-	2	-	1
Oregon.....	103	-	1	-	1	-	3	-	3	-	4
California.....	477	-	13	-	3	1	73	-	6	8	196
Alaska.....	77	-	-	-	-	-	-	-	-	-	-
Hawaii.....	56	-	3	-	-	-	3	-	-	-	-
Puerto Rico.....	5	-	16	-	-	-	6	-	-	-	30

Week No.  
41

## DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 14, 1967

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENCLAND:	649	411	28	15	SOUTH ATLANTIC:	1,059	575	30	33
Boston, Mass.	215	126	4	5	Atlanta, Ga.	119	67	2	4
Bridgeport, Conn.	35	24	3	-	Baltimore, Md.	180	90	3	6
Cambridge, Mass.	38	30	-	-	Charlotte, N. C.	41	17	1	1
Fall River, Mass.	24	16	1	1	Jacksonville, Fla.	83	39	2	2
Hartford, Conn.	49	31	2	3	Miami, Fla.	67	42	1	2
Lowell, Mass.	33	20	3	1	Norfolk, Va.	51	26	2	2
Lynn, Mass.	19	13	-	-	Richmond, Va.	81	49	1	1
New Bedford, Mass.	23	16	-	-	Savannah, Ga.	27	10	-	1
New Haven, Conn.	42	20	2	1	St. Petersburg, Fla.	75	60	4	-
Providence, R. I.	44	27	3	1	Tampa, Fla.	79	43	6	2
Somerville, Mass.	7	5	1	1	Washington, D. C.	213	105	3	10
Springfield, Mass.	38	22	3	1	Wilmington, Del.	43	27	5	2
Waterbury, Conn.	23	15	-	1					
Worcester, Mass.	59	46	6	-					
MIDDLE ATLANTIC:	2,956	1,706	99	139	EAST SOUTH CENTRAL:	630	336	33	36
Albany, N. Y.	48	27	1	1	Birmingham, Ala.	96	54	3	6
Allentown, Pa.	31	18	-	1	Chattanooga, Tenn.	38	22	2	-
Buffalo, N. Y.	117	68	2	7	Knoxville, Tenn.	34	23	3	3
Camden, N. J.	34	15	1	3	Louisville, Ky.	138	75	5	8
Elizabeth, N. J.	30	20	-	-	Memphis, Tenn.	131	67	10	8
Erie, Pa.	30	24	-	-	Mobile, Ala.	54	19	4	6
Jersey City, N. J.	46	22	3	1	Montgomery, Ala.	44	26	2	2
Newark, N. J.	84	41	5	3	Nashville, Tenn.	95	50	4	3
New York City, N. Y.	1,502	876	44	55	WEST SOUTH CENTRAL:	1,010	498	29	73
Paterson, N. J.	43	22	3	4	Austin, Tex.	38	20	3	3
Philadelphia, Pa.	473	265	11	32	Baton Rouge, La.	12	7	1	1
Pittsburgh, Pa.	155	92	6	7	Corpus Christi, Tex.	41	19	-	1
Reading, Pa.	42	23	1	2	Dallas, Tex.	134	63	3	14
Rochester, N. Y.	117	68	9	10	El Paso, Tex.	35	16	2	3
Schenectady, N. Y.	22	16	1	1	Fort Worth, Tex.	83	43	2	12
Scranton, Pa.	21	10	1	2	Houston, Tex.	191	78	1	15
Syracuse, N. Y.	34	20	1	2	Little Rock, Ark.	49	26	2	-
Trenton, N. J.	57	26	5	4	New Orleans, La.	143	64	3	7
Utica, N. Y.	35	28	4	4	Oklahoma City, Okla.	59	36	3	2
Yonkers, N. Y.	35	25	1	-	San Antonio, Tex.	124	64	2	9
EAST NORTH CENTRAL:	2,460	1,366	68	123	Shreveport, La.	51	28	4	4
Akron, Ohio	76	46	-	4	Tulsa, Okla.	50	34	3	2
Canton, Ohio	22	10	-	-	MOUNTAIN:	385	228	18	18
Chicago, Ill.	701	388	24	40	Albuquerque, N. Mex.	25	19	2	3
Cincinnati, Ohio	175	96	4	10	Colorado Springs, Colo.	25	17	2	2
Cleveland, Ohio	215	113	3	13	Denver, Colo.	109	68	2	2
Columbus, Ohio	127	66	3	7	Ogden, Utah	23	8	1	3
Dayton, Ohio	77	30	1	5	Phoenix, Ariz.	103	61	6	3
Detroit, Mich.	333	185	8	12	Pueblo, Colo.	23	14	1	1
Evansville, Ind.	32	22	2	-	Salt Lake City, Utah	35	19	1	1
Flint, Mich.	55	22	1	5	Tucson, Ariz.	42	22	3	3
Fort Wayne, Ind.	34	29	3	-	PACIFIC:	1,324	780	29	56
Cary, Ind.	47	23	4	1	Berkeley, Calif.	20	13	-	1
Grand Rapids, Mich.	44	25	4	2	Fresno, Calif.	43	17	2	1
Indianapolis, Ind.	115	64	3	3	Glendale, Calif.	26	19	-	-
Madison, Wis.	40	23	-	-	Honolulu, Hawaii	42	22	1	5
Milwaukee, Wis.	119	73	1	4	Long Beach, Calif.	63	41	3	4
Peoria, Ill.	42	15	-	5	Los Angeles, Calif.	411	244	8	17
Rockford, Ill.	20	14	1	1	Oakland, Calif.	73	40	-	2
South Bend, Ind.	24	16	-	-	Pasadena, Calif.	23	16	-	1
Toledo, Ohio	98	66	4	7	Portland, Oreg.	102	71	3	1
Youngstown, Ohio	64	40	2	4	Sacramento, Calif.	53	31	2	4
WEST NORTH CENTRAL:	769	481	18	32	San Diego, Calif.	89	47	4	12
Des Moines, Iowa	47	30	2	2	San Francisco, Calif.	132	66	1	2
Duluth, Minn.	23	17	-	-	San Jose, Calif.	39	19	-	2
Kansas City, Kans.	45	29	1	5	Seattle, Wash.	114	65	2	3
Kansas City, Mo.	151	89	4	6	Spokane, Wash.	65	49	2	-
Lincoln, Nebr.	28	20	-	2	Tacoma, Wash.	29	20	1	1
Minneapolis, Minn.	96	62	1	4	Total	11,242	6,381	352	525
Omaha, Nebr.	64	40	3	2					
St. Louis, Mo.	210	126	2	5					
St. Paul, Minn.	63	35	1	6					
Wichita, Kans.	42	33	4	-					

Cumulative Totals  
including reported corrections for previous weeksAll Causes, All Ages ----- 502,689  
All Causes, Age 65 and over ----- 286,669  
Pneumonia and Influenza, All Ages ----- 17,612  
All Causes, Under 1 Year of Age ----- 25,638

OCTOBER 14, 1967

UNIVERSITY OF FLORIDA



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## SHIGELLOSIS - (Continued from page 346)

Table 4  
Six Most Frequently Isolated Serotypes from Humans  
January through June 1967

Rank	Serotype	Number Reported	Calculated Number*	Calculated Percent	Rank July-Dec. 1966
1	<i>S. sonnei</i>	2,360	2,378	49.0	1
2	<i>S. flexneri</i> 2a	592	994	20.5	2
3	<i>S. flexneri</i> 3a	156	473	9.8	3
4	<i>S. flexneri</i> 4a	150	293	6.0	5
5	<i>S. flexneri</i> 6	219	267	5.5	4
6	<i>S. flexneri</i> 2b	88	148	3.1	6
Subtotal		3,565	4,553	93.9	
Total (all serotypes)		4,849	4,852		

\*Calculated Number is derived by distributing the unspecified isolations in each group to their subgroups in the same proportions as the distribution of the specified isolations of that group.

*S. flexneri* has repeatedly accounted for about two-thirds of isolations in southern states, but less than one-third of isolations in northern states.

Around 70 percent of the shigella isolations during the 6-month period were from children under 10 years of age. No apparent sex predilection was noted.

There were 15 nonhuman isolations of shigella reported from January through June 1967. Ten of these were from monkeys.

(Reported by the Bacterial Diseases Section, Epidemiology Program, NCDC.)

CURRENT TRENDS  
MEASLES

For week 41 (ending October 14, 1967), a total of 263 cases of measles were reported to the NCDC. Of these, 186 (71 percent) were reported from seven states: Texas (74), Washington (23), California (22), North Carolina (19), Wisconsin (19), Tennessee (16), and Oregon (13).

According to the most recent information available, 81 counties or health districts reported 221 of the reported cases. Twenty-six counties account for two-thirds of the national weekly total. In week 41 for 1966, 679 cases were reported from 174 counties or health districts.

The 74 Texas cases are from 19 health districts, with the Armed Forces reporting unit, and Smith and Galveston Counties leading the list. In California, 9 counties reported the 22 measles cases with 7 cases from Ventura County. Eighteen of North Carolina's 19 cases were from Rowan County; these cases are now under intensive epidemiologic review. Wisconsin reported 13 of their 19 cases from Milwaukee and they are beginning an immediate investigation. No reports are presently available from Washington, Tennessee and Oregon.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR  
MORBIDITY AND MORTALITY WEEKLY REPORT  
NATIONAL COMMUNICABLE DISEASE CENTER  
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

U. S. DEPARTMENT OF  
HEALTH, EDUCATION AND WELFARE  
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BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL  
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